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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,042	03/07/2007	Sudhanshu Vrati	U 016379-3	7944
LADAS & PAR	7590 10/07/200 RRY LLP	8	EXAMINER	
26 WEST 61ST	STREET		BOESEN, AGNIESZKA	
NEW YORK, NY 10023			ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			10/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Commence	10/585,042	VRATI, SUDHANSHU					
Office Action Summary	Examiner	Art Unit					
	AGNIESZKA BOESEN	1648					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 11 Ju	ne 2008						
· <u> </u>	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
.—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	x parto Quayro, 1000 0.5. 11, 10	0.0.210.					
Disposition of Claims							
4)⊠ Claim(s) <u>21-49</u> is/are pending in the application	4) Claim(s) <u>21-49</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>21-49</u> are subject to restriction and/or	8)⊠ Claim(s) <u>21-49</u> are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	•						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te					

DETAILED ACTION

Applicant's preliminary amendment filed June 11, 2008 is acknowledged. Claims 21-49 are pending and subject to the following restriction requirement.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 21-33, drawn to a recombinant adenovirus (RAdEs) vaccine producing a secretory envelope protein (es) of Japanese encephalitis virus, a pAdEs plasmid of SEQ ID NO: 1 and a method of making the recombinant adenovirus (RAdEs).

Group II, claim(s) 34-49, drawn to a method for protecting a subject against Japanese encephalitis virus infection comprising administering a vaccine of a recombinant adenovirus.

The inventions listed in groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because they lack the same or corresponding special technical features for the following reasons: the shared technical feature of the claimed invention is a recombinant adenovirus (RAdEs) producing a secretory envelope protein (Es) of Japanese encephalitis virus, and the methods of making and using the recombinant adenovirus (RAdEs). Applicant's

Art Unit: 1648

specification discloses that the recombinant adenovirus (RAdEs) of the present invention comprises the cDNA encoding the JEV E secretory protein (Es) incorporated into a replication incompetent ($\Delta E1/\Delta E3$) human adenovirus type 5 (Ad5) genome –RAd (Example 2). Thus RAd and Es is assembled to form a RAdEs). The special technical feature of the present invention is taught in the prior art by Kaur et al. (Journal of Infectious Diseases, 2001, p. 1-12 in IDS of 6/30/2008) in view of Jaiswal et al. (Journal of Virology, December 2003, p. 12907-12913 in IDS of 6/30/2008). Kaur et al. teach the cDNA encoding the JEV E secretory protein and immunization of mice using plasmids encoding the JEV E secretory protein (see Materials and Methods). Jaiswal et al. teach replication incompetent ($\Delta E1/\Delta E3$) human adenovirus type 5 (Ad5) genome expressing the ectodomain of the Dengue Virus Type 2 envelope protein and generation of immune responses due to administration of the chimeric adenoviral vector in mice (see the entire document). It would have been obvious to incorporate Kaur's cDNA encoding JEV E secretory protein into Jaiswal's replication incompetent ($\Delta E1/\Delta E3$) human adenovirus type 5 (Ad5) genome, because Kaur teaches that immune responses generated against JEV E secretory protein resulted in 60% protection against challenged animals and because Jaiswal et al. teach that his adenovirus vector (RAd) effectively induces immune responses against chimeric antigens (see page 12907). Thus the shared special technical feature of the present invention is taught in the prior art as discusses above.

Since Applicant's invention does not contribute a special technical feature when viewed over the prior art they do not have a single inventive concept and thus the claims lack unity of invention. Therefore, the instant invention lacks Unity of Invention and restriction is set forth as it applies to U.S. practice.

Art Unit: 1648

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Rejoinder

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double

Art Unit: 1648

patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AGNIESZKA BOESEN whose telephone number is (571)272-8035. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Agnieszka Boesen/ Examiner, Art Unit 1648